PHASE II ENVIRONMENTAL SITE ASSESSMENT

Former Delfasco Forge Facility
114 Northeast 28th Street
Grand Prairie, Texas 75050

EnSafe Project Number
7540-005

Prepared for:

Delfasco

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October 7, 2002

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EXECUTIVE SUMMARY

On behalf of Delfasco Inc., EnSafe Inc. has performed a Phase II Environmental Site Assessment (Phase II) at the former Delfasco Forge facility at 114 Northeast 28th Street, Grand Prairie (Dallas County), Texas. The Phase II was performed to determine if there had been an historical release to the subsurface from operations associated with the former forge or other sources. The assessment included soil and groundwater sampling at locations identified in the Phase II Environmental Site Assessment Proposal agreed upon September 3, 2002. Ed Mears of EnSafe conducted the investigation September 4th and 5th, 2002. Following is a summary the investigation activities.

- Four soil borings were advanced into the subsurface at the subject property using a truck mounted Geoprobe. Soil was collected continuously in 4-foot core samples from each boring Each core was logged and field-screened for volatile organic compounds (VOCs) with a photo ionization detector (PID). Soil samples were selected for laboratory analysis based on the approved scope of work, visual observations and PID results.

- Soil boring B-1 was advanced to four feet below ground surface (bgs) north of the former machine shop in the vicinity of where raw metals were previously stored. One soil sample was collected at B-1 for metals in soil analysis. Boring B-2 was advanced to 20 feet bgs in the former forge shop, near the largest of the three former pits. One soil sample was collected at B-2 for laboratory VOCs and total petroleum hydrocarbons (TPH) analysis. Borings B-3 and B-4 were each advanced to 25.5 and 30 feet, respectively. Soil samples were collected from boring B-3 for laboratory VOCs and TPH analysis. Temporary groundwater monitoring wells were installed in borings B-3 and B-4. Groundwater samples were collected from each of the temporary wells for laboratory VOCs and TPH analysis.

- Soil samples were analyzed by EPA Method 8260 for VOCs, EPA Method 6010 for RCRA Metals, and Texas Method 1005 for TPH. The groundwater samples were analyzed by EPA Method 8260 for VOCs and Texas Method 1005 for TPH.

- Field observations along with soil and groundwater analytical results from the investigation indicate soil and groundwater has been impacted at the subject property. Chemicals of concern (COCs) in soil samples collected did not exceed Texas Commission on Environmental Quality (TCEQ) protective concentration limits (PCLs). COCs in groundwater samples collected did exceed PCLs for several VOCs and TPH. Laboratory analysis for metals in soil did not reveal any that exceed PCLs.

- EnSafe recommends Delfasco enter the subject property into the TCEQ voluntary cleanup program (VCP) to address groundwater contamination impact in accordance with the Texas Risk Reduction Program (TRRP).

EnSafe has completed a Phase II ESA of the Delfasco property at 114 Northeast 28th Street, Grand Prairie, Texas, to address concerns identified in the Phase I Environmental Site Assessment by Pinnacle Sciences, Inc. of Dallas, Texas. The Phase II has determined that soil and groundwater at the property has been impacted by several chemicals of concern, some of which were detected above applicable protective concentration limits. The following report discusses the Phase II activities, results and recommendations in more detail.

1.0 INTRODUCTION

EnSafe Inc. was retained by Delfasco Inc. to perform a Phase II Environmental Site Assessment (Phase II) at the former Delfasco facility at 114 Northeast 28th Street, Grand Prairie (Dallas County), Texas. The Phase II was performed to determine if there had been an historical release to the subsurface from operations associated with the former forge or other sources. This Phase II included soil and groundwater sampling at locations identified in the Phase II Environmental Site Assessment Proposal Ed Mears of EnSafe conducted the investigation September 4-5, 2002. Following is a summary the investigation activities. EnSafe's proposal to conduct the Phase II included a work plan, which was amended and finalized by Delfasco and EnSafe prior to the Phase II activities.

The Phase II activities included:

- Mobilizing to the site with a direct-push technology (DPT) soil probing unit.
- Advancing four DPT soil borings to varying depths and collecting three soil samples.
- Installing temporary groundwater monitoring wells in two of the four DPT borings to collect two groundwater samples.
- Preserving, packaging and shipping soil and groundwater samples for laboratory analysis.

This report presents findings and conclusions from the scope of work outlined above. Photographs illustrating site conditions and investigation activities are provided in Appendix A.

2.0 SITE AND VICINITY CHARACTERISTICS

2.1 Location and Setting

The Delfasco facility occupies approximately one-half acre of land on the east side of Northeast 28th Street, Grand Prairie (Dallas County), Texas. According to the Pinnacle Phase I ESA report, the property was a metal works facility from the 1950s through the 1990s. The Phase I listed Land-Air, Inc. as the occupant from 1967 to about 1976 (reportedly a machine manufacturer). The subject property was occupied by Delfasco from 1981 to 1997 and is now vacant. Delfasco Forge performed steel and iron forge and machining operations at the facility. The property has an office building adjacent to the forge shop and a separate machine shop building (Figure 1). There are currently no above-ground or under-ground storage tanks at the property The property is in an industrial, commercial and residential area bounded on the north by residential properties to the east by residential and automotive repair shops, on the south by a vacant lot, on the west by 28th Street then Dal-Worth Fabrication, a steel plate and tank manufacturer

2.2 Investigation Area

Four areas of concern were addressed for this investigation. The first area of concern is located north of the machine shop where metals had been stored outside and may have impacted the soils. The second area of concern is the shallow soils and groundwater at the forge building. Stains on the floors indicated a release to the subsurface may have occurred in the past. The third area of concern is also shallow soil and groundwater located between the machine shop and forge shop, along a storm water drain where surface spills or releases may have accumulated. The fourth area of concern is the shallow groundwater near the southeast (down-gradient) corner of the property where: a petroleum storage tank was located above ground; and where chemical releases across the property that impact groundwater might migrate.

If a release to the subsurface occurred at the first three areas of concern, the contamination would be detected in the shallow soils. A more significant release would be present in the first occurrence of groundwater.

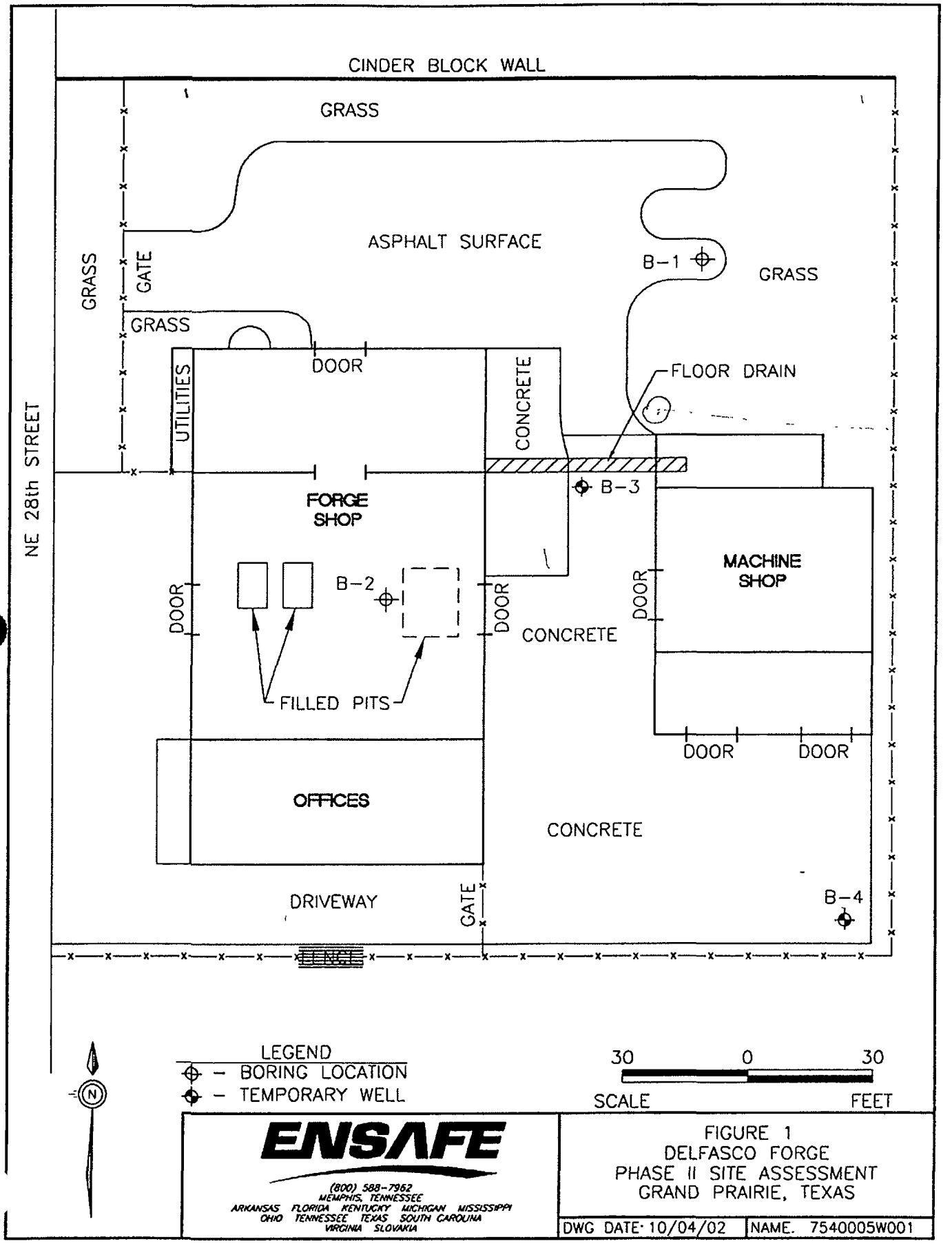

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FIGURE 1
DELFASCO FORGE
PHASE II SITE ASSESSMENT
GRAND PRAIRIE, TEXAS

DWG DATE: 10/04/02 | NAME. 7540005W001

2.3 Geologic and Topographic Information

The generally flat site slopes gently southeast, toward Mountain Creek Lake. The shallow soils in the site area consist of unconsolidated silt- sandy clay and clay deposits overlying the Eagle Ford Shale. The unconsolidated deposits are about 25 to 30 feet thick. The Shale thickness varies between 50 and 100 feet.

Information from this Phase II indicates that the site geology consists predominantly of dark-brown silty clay overlying the Eagle Ford Shale. Based on gauging data collected from the two temporary groundwater monitoring wells, groundwater at the site is between 20 and 22 feet below ground surface

3.0 SUBSURFACE INVESTIGATION

3.1 Field Investigation Methods

EnSafe completed preliminary tasks, such as visually assessing the investigation area and reviewing topographic and geologic maps and other data, to predict soil types and groundwater flow direction.

EnSafe retained the services of MagnaCore of Dallas to perform the direct push technology (DPT) soil borings and to install temporary groundwater monitoring wells. Mr. Ed Mears of EnSafe (Project Manager and Geologist) directed MagnaCore and the overall field investigation. Figure 1 illustrates the soil boring and temporary well locations.

3.1.1 Soil Sampling

On September 5, 2002, MagnaCore began DPT borings at the areas of concern as directed by EnSafe. Soil boring B-1 was advanced to four feet below ground surface (bgs) north of the former machine shop in the vicinity of where raw metals were previously stored. One soil sample was collected at B-1 for laboratory RCRA Metals analysis. Boring B-2 was advanced to 23 feet bgs in the former forge shop, near the largest of the three former pits. One soil sample was collected at B-2 from the 4- to 8-foot interval for laboratory VOCs and total petroleum hydrocarbons (TPH) analysis. Borings B-3 and B-4 were advanced to 25.5 and 30 feet respectively. A soil sample was collected from B-3 for laboratory VOCs and TPH analysis.

Soil was continuously sampled in 4-foot cores with a macro sampler, lined with dedicated plastic core sleeves, as each boring was advanced. The soil cores were visually observed and logged on field forms. Soil samples were then sealed in plastic bags. Each bagged sample was screened with a photo ionization detector (PID) for volatile organic compounds and logged. Boring B-1 soil sample was selected based on the objective to evaluate the shallow soils for metals. No significant PID readings were observed at boring B-1. Samples from borings B-2 and B-3 were selected based upon highest PID readings observed above the encountered groundwater level.

Selected samples were placed in laboratory provided sterile containers preserved on ice and shipped over-night to the laboratory for analysis. Soil samples were analyzed by EPA Method 8260 for VOCs, EPA Method 6010 for RCRA Metals, and Texas Method 1005 for TPH analysis. Soil samples were collected, preserved and analyzed following EPA SW-846 protocol.

All sampling equipment was decontaminated between boring locations using a soapy water wash and clean water rinse process. Personnel handling samples wore disposable, dedicated nitrile gloves to ensure sample integrity, prevent cross contamination and protect personnel from contaminant exposure.

3.1.2 Groundwater Sampling

Temporary groundwater monitoring wells were installed in borings B-3 and B-4 After installation of the temporary groundwater monitoring wells at B-3 and B-4, EnSafe extracted groundwater from the well using a peristaltic pump with dedicated Teflon tubing. Groundwater samples were collected in laboratory provided containers, preserved on ice and shipped over-night to the laboratory for VOCs and TPH analysis

Groundwater samples were collected, preserved, and analyzed following EPA SW-846 protocol. After groundwater samples were collected, the temporary wells were removed. The bore holes were abandoned and plugged with a bentonite grout and capped with 5-inches of cement to surface elevation.

3.2 Laboratory Results

3.2.1 Soil Samples

Soil samples for VOCs, TPH and metals analyses were analyzed by STL Savannah Laboratories in Savannah, Georgia. Laboratory reports for soil samples indicate that several COCs were not detected above TCEQ Tier 1 protective concentration limits (PCLs) for 0.5-acre residential and commercial/industrial properties. Table 1 provides a summary of soil sample results and

Table 1
Phase II Environmental Site Assessment
Delfasco Forge, Grand Prairie, Texas

Soil Sample Results

Sample Location	B-1	B-2	B-3	TCEQ Tier 1	TCEQ Tier 1
Sample ID	DELSSB0104	DELSSB0208	DELSSB0304	Residential (0.5 Acre)	Commercial/Industrial (0.5 Acre)
Sample Depth (ft)	2-4	6-8	2-4	Protective Concentration Limit	Protective Concentration Limit
VOCs					
cis-1, 2-Dichloroethene	NS	0 310	0 018 (J)	770	6,400
Trichloroethene	NS	0 200	0 025	150	310
Ethylbenzene	NS	<0 023	0 083	5,300	18,000
Xylenes (total)	NS	<0 047	0 310	6,400	9,300
Metals					
Arsenic	3 2	NS	NS	24	200
Barium	110	NS	NS	2,800	39,000
Cadmium	1 6	NS	NS	52	850
Chromium	14	NS	NS	3,000	95,000
Lead	23	NS	NS	500	1,600
Selenium	<0 36	NS	NS	310	6
Silver	<0 16	NS	NS	96	4,800
Mercury	<0 025	NS	NS	4	1,900
TPH (1005)					
C6 to C12	NS	<61	87	1,600	3,900
C12 to C28	NS	<61	640	2,300	12,000
C28 to C35	NS	<61	160	NA	NA
C6 to C35 (total)	NS	<61	890	NA	NA

Notes All values in ppm (mg/kg)
Values in **Bold Print** are at or above TCEQ Tier 1 C/I PCLs
Only VOC Parameters Detected are Listed
Results in parenthesis ( ) are non-detect
NS - Not sampled for laboratory analysis

comparison to applicable PCLs. Analytical results, laboratory quality assurance/quality control documents and chain-of-custody forms are included in Appendix C.

Laboratory results show that metals in shallow soil at boring B-1 are significantly lower than TCEQ PCLs. It appears metals have not adversely impacted the shallow soil in the vicinity of B-1.

Laboratory results indicate TPH and VOCs are present in the shallow soils at the property, however, they are at significantly lower concentrations than the TCEQ PCLs for residential commercial/industrial properties.

3.2.2 Groundwater Samples

Groundwater samples were also analyzed by STL Savannah Laboratories. Laboratory reports for the Phase II groundwater samples show several COCs were detected above Tier 1 PCLs for 0.5-acre Residential and Commercial/Industrial properties. Table 2 provides a summary of groundwater sample results and comparison to applicable PCLs. Analytical results, laboratory quality assurance/quality control documents and chain-of-custody forms are included in Appendix C.

A trip blank was included for laboratory analysis of VOCs for quality assurance/quality control. The trip blank sample was provided by the laboratory with chain of custody. Trip blank results are listed on Table 2.

Laboratory results indicate a significant presence of VOCs and a minor TPH impact in groundwater at the boring B-3 location, with moderate impact of VOCs at boring B-4 location. Trichloroethylene (TCE) is present at a very high concentration (30,000 ppb) with known daughter products, vinyl chloride, 1,1-Dichloroethene (1,1-DCE), cis-1,2-Dichloroethene (c-1,2-DCE), 1,1,2-Trichloroehtane (1,1,2-TCA). TCE is a daughter product of Tetrachloroethene (PCE) also known at Perchloroethene. Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) are common petroleum fuel hydrocarbons.

Table 2
Phase II Environmental Site Assessment
Delfasco Forge, Grand Prairie, Texas

Groundwater Sample Results

Sample Location	B-3	B-4	Trip Blank	TCEQ Tier 1 Residential	TCEQ Tier 1 Commercial/Industrial
Sample ID	DELGSB0301	DELGSB0401	DELT090502	Protecive Concentration Limit	Protecive Concentration Limit
VOCs					
Vinyl chloride	**31**	<1.0	<1.0	**2**	**2**
1,1-Dichloroethene	**93**	1.5	<1.0	**7**	**7**
cis-1, 2-Dichloroethene	**9,300**	34	<1 0	**70**	**70**
Trichloroethene	**30,000 (D)**	**180**	<1.0	**5**	**5**
1,1,2-Trichloroethane	**10 (J)**	0.16	<1 0	**5**	**5**
Benzene	**42**	0.22	<1.0	**5**	**5**
Tetrachloroethene	**270**	1.0	<1.0	**5**	**5**
TPH (1005)					
C6 to C12	**7.3**	<5.0	NS	**2.9**	**2.9**
C12 to C28	<5.0	<5 0	NS	**2.9**	**2.9**
C28 to C35	<5.0	<5.0	NS	**NA**	**NA**
C6 to C35 (total)	7.3	<5 0	NS	**NA**	**NA**

Notes: VOC values in ppb (µg/L), TPH values in ppm (mg/L)
Values in **Bold Print** are above TCEQ Tier 1 C/I PCLs
Only VOC Parameters Detected Above PCLs are Listed
NS - Not sampled for laboratory analysis
D = value was obtained from a diluted sample. First analysis exceeded the laboratory detection limits
J = Value detected is below laboratory reporting limits, and therefor an estimate

TPH is reported in three ranges of petroleum hydrocarbons based on molecular structure. The lighter TPH range of C6 to C12 had detections above TCEQ PCLs and reflects the presence of BTEX range petroleum hydrocarbons. The absence of higher range TPH in groundwater indicates heavier petroleum constituents are not present at boring B-3 and B-4 locations.

3.3 Sample Labeling Protocol

Following is an explanation of the 10-character sample identification system utilized for this investigation. The first three letters (DEL) represent the site, Delfasco; the fourth letter, (S or G) indicates soil or groundwater sample type; SB indicates soil boring; the next two digits identify the boring location: 01, 02, 03 or 04; and the last two digits represent the depth of sample (for soil) or sampling event (for groundwater).

Examples

DELSSB0104 = soil sample from boring B-1 collected at 4 feet below ground surface.

DELGSB0301 = groundwater sample from boring B-3, first sampling event.

4.0 CONCLUSIONS AND RECOMMENDATIONS

EnSafe Inc. has performed a Phase II Environmental Site Assessment at the former Delfasco Forge facility at 114 Northeast 28th Street in Grand Prairie (Dallas County), Texas. The Phase II was performed to determine if the subsurface has been impacted by historical operations and to provide Delfasco with the necessary documentation to adequately address issues listed in the Pinnacle Sciences Phase I ESA. The Phase II included advancing four DPT borings to collect soil and groundwater samples for laboratory analysis.

Soil samples collected during this investigation indicate there is not a soil contamination issue at boring B-1, B-2 or B-3 locations requiring corrective action in accordance with TCEQ TRRP standards. However, due to the limited extent of soil sampling at the property and the known groundwater impact by chlorinated solvents and petroleum hydrocarbons, other areas of soil contamination may exist on the subject property.

The impact of chlorinated solvents TCE and PCE with their daughter products in groundwater at the property suggests a release has occurred on or adjacent to the subject property. TCE has typically been used by industry for degreasing and cleaning metal parts, tools, etc. PCE is typically used by garment dry-cleaning operations and for other cleaning purposes. It cannot be determined with the information collected in this Phase II whether the presence of the two COCs is related in a degradation aspect since the source is unknown. TCE and PCE have a higher specific gravity than water, thereby sinking in groundwater until reaching an impervious barrier. The Eagle Ford Shale underlying the property may serve this purpose, but cannot be verified without further investigation. The presence of BTEX in groundwater may be a residual contaminant in the TCE or from a separate source. The horizontal flow of groundwater across the site could mobilize and migrate the contaminants offsite. This information can only be determined and or verified by a full nature and extent of contamination investigation.

In conclusion, laboratory results and field investigations indicate that soil and groundwater at the property has been impacted by a release of chlorinated solvents and petroleum hydrocarbons from an undetermined source. Laboratory reports show that COCs detected exceed TCEQ PCLs for this site.

EnSafe recommends the following actions by Delfasco:

1. Report the "release" to the TCEQ region office in Fort Worth, Texas (817) 588-5800.

2. Enter the subject property into the TCEQ voluntary cleanup program[1] (VCP). Entry is accomplished by completing an application to the VCP (TCEQ form 10241), with a summary Environmental Assessment Report and $1000 deposit to TCEQ for oversight costs. The VCP application establishes a timeline to accomplish site evaluation and restoration activities.

3. TCEQ will accept or reject the VCP application within 45 days of receipt Following VCP acceptance, an affected property assessment will be required to delineate the horizontal and vertical extent of contamination, determine the source of contamination, and determine the eligibility for higher PCLs for contaminants through risk assessment.

4. A corrective action plan will be proposed in accordance with the Texas Risk Reduction Program and approved by TCEQ to address the findings of the affected property assessment.

5. Upon completion of corrective actions, TCEQ will issue a certificate of closure for the release at the property.

If additional investigations determine contaminants have migrated off-site, Delfasco will be required to notify the affected property owners.

EnSafe is a full-service environmental management and consulting firm, capable of completing the above tasks to satisfy Delfasco and TCEQ. EnSafe will be pleased to provide Delfasco with a scope of work and cost estimate for the above services.

[1]The Texas VCP provides administrative, technical, and legal incentives to encourage the cleanup of contaminated sites in Texas Since all non-responsible parties, including future lenders and landowners, receive protection from liability to the state of Texas for cleanup of sites under the VCP, most of the constraints for completing real estate transactions at those sites are eliminated. As a result, many unused or under used properties may be restored to economically productive or community beneficial use. Also under the VCP, site cleanups follow a streamlined approach to reduce future human and environmental risk to safe levels

5.0 REFERENCES

Geologic Atlas of Texas, Dallas Sheet, The University of Texas at Austin, Bureau of Economic Geology, 1972 (Revised 1988).

Phase I Environmental Site Assessment, Delfasco Property, Grand Prairie, Texas. Pinnacle Sciences, Inc. April 1, 2002.

Phase II Environmental Site Assessment Work Plan, Delfasco Property, Grand Prairie, Texas, EnSafe, Inc., July 30, 2002.

TNRCC Regulatory Guidance, RG-366/TRRP-27: Development of Human Health PCLs for Total Petroleum Hydrocarbon Mixtures, Remediation Section, TNRCC, June 2000.

TNRCC Tier 1 Protective Concentration Limits, March 2002.

Appendix A
Site Photographs

Photo 1: Installation of Boring B-1. View facing south. Machine shop is visible behind Geoprobe.

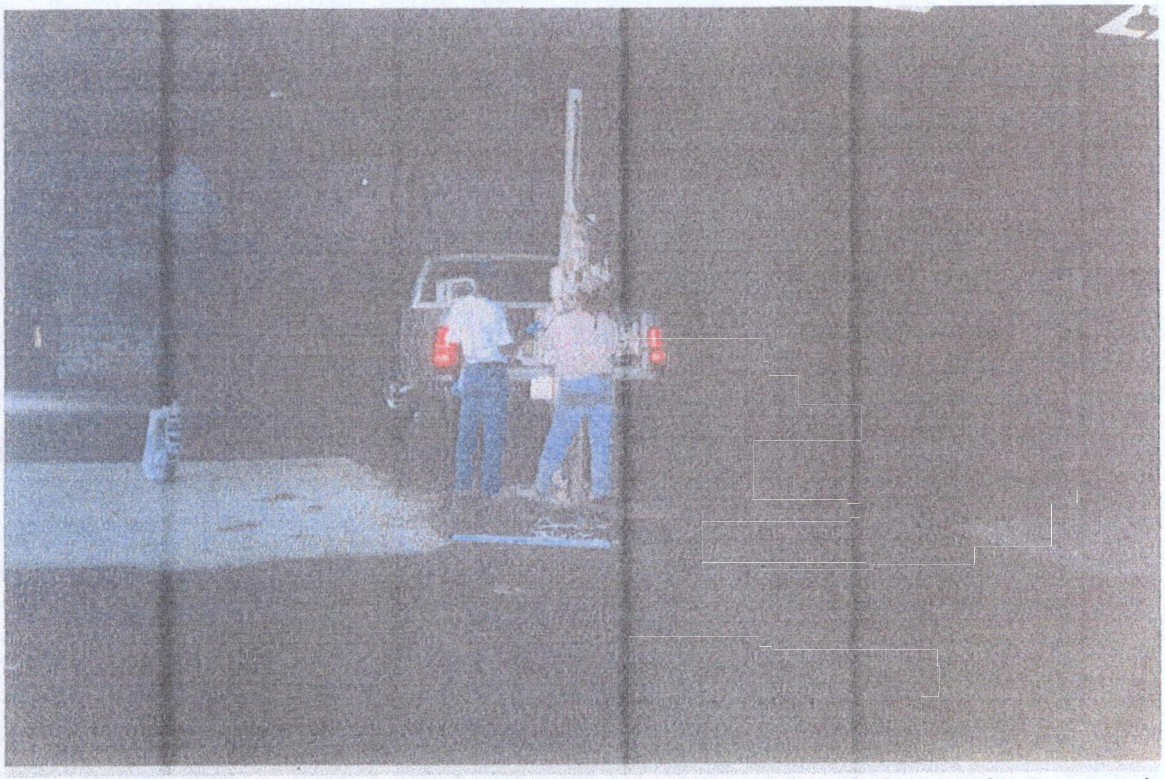

Photo 2: Installation of Boring B-2 inside forge building. View facing south. Former pit is visible to left of Geoprobe, where lighter concrete surface is visible.

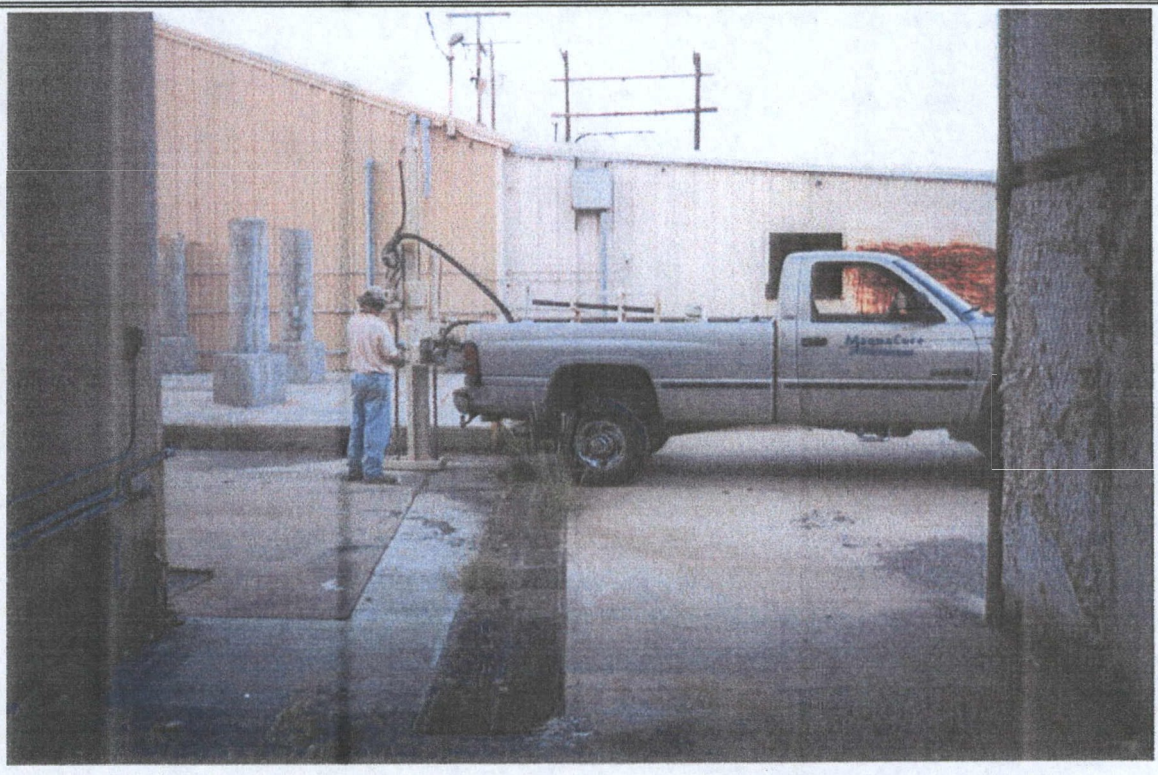

Photo 3: Installation of Boring B-3. View facing west from Machine shop. Stormwater drain is visible at center of photo. Forge building is visible at rear of photo.

Photo 4: View of Boring B-4 at southeast corner of property. View facing east. Machine shop visible at left side of photo.

Appendix B
Soil Boring Logs

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BORING LOG B-1

(Page 1 of 1)

Delfasco Forge
Grand Prairie, Texas

Phase II Environmental Site Assessment
Project Number 7540-005

Date Completed	9/4/02	Logged By	E Mears
Drilling Method	Direct Push Rig	Boring Depth	4 0 feet
Drilling Company	MagnaCore, Inc		
Sampling Method	4' DPT Tube		
Ensafe Rep	E Mears		

Sample Condition
- ☒ Analytical Sample
- ☐ Field Sample

Water Levels
- ▼ During Drilling
- ▽ After Completion

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	Soil Class	GRAPHIC LOG	GEOLOGIC DESCRIPTION	Water Levels
0						Dark brown silty CLAY, slight moist, no odor	
2	0 7		DELSSB0104	CL			
4						TD = 4' Boring plugged with bentonite	
6							
8							
10							

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BORING LOG B-2

(Page 1 of 1)

Delfasco Forge
Grand Prairie, Texas

Phase II Environmental Site Assessment
Project Number 7540-005

Date Completed	9/4/02	Logged By	E Mears
Drilling Method	Direct Push Rig	Boring Depth	23 feet
Drilling Company	MagnaCore, Inc		
Sampling Method	4' DPT Tube		
Ensafe Rep	E Mears		

Sample Condition
- Analytical Sample
- Field Sample

Water Levels
- During Drilling
- After Completion

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	Soil Class	GRAPHIC LOG	GEOLOGIC DESCRIPTION	Water Levels
0						Concrete foundation	
				SC		Tan Sand, loose, foundation backfill	
						Black asphalt, hard, dry	
2	84			CL		Dark brown silty CLAY with limestone gravels, stiff, slightly moist, no odor	
4						Dark brown silty CLAY, stiff, slight moist, minor chalk nodules (<5%)	
6	90 7		DELSSB0208				
8				CL		Transition color change to light brown-brown-orange, silty, sandy CLAY, stiff, slight moist Increasing LS/chalk nodules size (globular) Moist, no odor	
10	74					Decreasing chalk nodules	
12	43 4					Brown-orange silty-sandy CLAY, stiff, moist (not wet), with large globular chalk nodules	
14							
16	35 9					Light brown-orange SAND with clay, loose, moist to dry, no odor	
18	47 9			SC			
20						boring hole collapsed in at 20-feet	
22							
24						TD = 24' Boring plugged with bentonite	

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10-07-2002

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BORING LOG B-3

(Page 1 of 1)

Delfasco Forge
Grand Prairie, Texas

Phase II Environmental Site Assessment
Project Number 7540-005

Date Completed	9/4/02	Logged By	E Mears
Drilling Method	Direct Push Rig	Boring Depth	25 5 feet
Drilling Company	MagnaCore, Inc		
Sampling Method	4 DPT Tube		
Ensafe Rep	E Mears		

Sample Condition
- Analytical Sample
- Field Sample

Water Levels
- During Drilling
- After Completion

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	Soil Class	GRAPHIC LOG	GEOLOGIC DESCRIPTION	Water Levels
0						Concrete	
2	135		DELSSB0304			Dark brown silty CLAY, stiff, slight moist, minor chalk nodules, strong petroleum odor	
4				CL		No petroleum odor, dirty organic odor	
6	42						
8	94			CL		Brown, dark gray, orange, gray silty (mottled coloring) CLAY, stiff, slight moist to dry, oxidation nodules (black-rusty, brittle (10%)	
10							
12	239						
14	1087			CL		Brown-orange silty-sandy CLAY, stiff, moist (not wet), with large globular chalk nodules	
16							
18							
20						boring hole collapsed in at 20-feet, temporary well installed to collect groundwater sample	▼
22							
24							
26						TD = 25 5' Boring plugged with bentonite	

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10-07-2002

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BORING LOG B-4

(Page 1 of 1)

Delfasco Forge
Grand Prairie, Texas

Phase II Environmental Site Assessment
Project Number 7540-005

Date Completed	9/4/02	Logged By	E Mears
Drilling Method	Direct Push Rig	Boring Depth	30 feet
Drilling Company	MagnaCore, Inc		
Sampling Method	4' DPT Tube		
Ensafe Rep	E Mears		

Sample Condition
- Analytical Sample
- Field Sample

Water Levels
- During Drilling
- After Completion

Depth in Feet	PID (ppm)	Samples	SAMPLE ID	Soil Class	GRAPHIC LOG	GEOLOGIC DESCRIPTION	Water Levels
0						Concrete	
2	3 5			CL		Dark brown silty CLAY, stiff, dry, no odor	
4						Not sampled from 4 to 30 feet	
24						Groundwater encountered at 24 0 feet	▼
30						TD = 30' Boring plugged with bentonite	

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32

10-07-20... ...ROJECTS\Delfasco Forge\Grand Prairie\borings and wells\b4 BOR

Appendix C
Laboratory Analytical Data

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S2-46363
Received: 06 SEP 02
Reported: 30 SEP 02

Mr. Ed Mears
EnSafe, Inc.
4545 Fuller Dr., Suite 326
Irving, TX 75038

Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-1	DELSSB0208	09-04-02/09:50	LMPG06
46363-2	DELSSB0304	09-04-02/11:40	LMPG06

PARAMETER	46363-1	46363-2
Volatiles by GC/MS (8260)		
Chloromethane, ug/kg dw	47U	50U
Bromomethane (Methyl bromide), ug/kg dw	47U	50U
Vinyl chloride, ug/kg dw	47U	50U
hloroethane, ug/kg dw	47U	50U
ethylene chloride (Dichloromethane), ug/kg dw	23U	25U
Acetone, ug/kg dw	230U	250U
Carbon disulfide, ug/kg dw	23U	25U
1,1-Dichloroethene, ug/kg dw	23U	25U
1,1-Dichloroethane, ug/kg dw	23U	25U
cis-1,2-Dichloroethene, ug/kg dw	310	18J
trans-1,2-Dichloroethene, ug/kg dw	23U	25U
Chloroform, ug/kg dw	23U	25U
1,2-Dichloroethane, ug/kg dw	23U	25U
2-Butanone (MEK), ug/kg dw	120U	120U
1,1,1-Trichloroethane, ug/kg dw	23U	25U
Carbon tetrachloride, ug/kg dw	23U	25U
Bromodichloromethane, ug/kg dw	23U	25U
1,1,2,2-Tetrachloroethane, ug/kg dw	23U	25U
1,2-Dichloropropane, ug/kg dw	23U	25U
trans-1,3-Dichloropropene, ug/kg dw	23U	25U
Trichloroethene, ug/kg dw	200	25

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LOG NO: S2-46363
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Mr Ed Mears
EnSafe, Inc.
4545 Fuller Dr., Suite 326
Irving, TX 75038

Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-1	DELSSB0208	09-04-02/09:50	LMPG06
46363-2	DELSSB0304	09-04-02/11:40	LMPG06

PARAMETER	46363-1	46363-2
Dibromochloromethane, ug/kg dw	23U	25U
1,1,2-Trichloroethane, ug/kg dw	23U	25U
Benzene, ug/kg dw	23U	25U
cis-1,3-Dichloropropene, ug/kg dw	23U	25U
omoform, ug/kg dw	23U	25U
-Hexanone, ug/kg dw	120U	120U
4-Methyl-2-pentanone (MIBK), ug/kg dw	120U	120U
Tetrachloroethene, ug/kg dw	23U	25U
Toluene, ug/kg dw	23U	25U
Chlorobenzene, ug/kg dw	23U	25U
Ethylbenzene, ug/kg dw	23U	83
Styrene, ug/kg dw	23U	25U
Xylenes, Total, ug/kg dw	47U	310
Dilution Factor	5	5
Prep Date	09.10.02	09.10.02
Analysis Date	09.10.02	09.10.02
Batch ID	1M0910	1M0910

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Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-1	DELSSB0208	09-04-02/09:50	LMPG06
46363-2	DELSSB0304	09-04-02/11:40	LMPG06

PARAMETER	46363-1	46363-2
Total Petroleum Hydrocarbons (TNRCC-1005)		
TPH-C6-C12, mg/kg dw	61U	87
TPH->C12-C28, mg/kg dw	61U	640
TPH->C28-C35, mg/kg dw	61U	160
TPH- Total C6-C35, mg/kg dw	61U	890
Surrogate 1-Chlorooctane, %	70 %	67 %
Surrogate - o-Terphenyl	70 %	67 %
Dilution Factor	1	1
Prep Date	09.16.02	09.16.02
Analysis Date	09.17.02	09.17.02
Batch ID	0916W	0916W
Percent Solids	82	83

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Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-3	DELSSB0104	09-04-02/09:25	LMPG06

PARAMETER	46363-3		
Arsenic (6010), mg/kg dw	3.2		
Dilution Factor	1		
Prep Date	09.09.02		
Analysis Date	09.10.02		
Batch ID	0909A		
:ium (6010), mg/kg dw	110		
Dilution Factor	1		
Prep Date	09.09.02		
Analysis Date	09.10.02		
Batch ID	0909A		
Cadmium (6010), mg/kg dw	1.6		
Dilution Factor	1		
Prep Date	09.09.02		
Analysis Date	09.10.02		
Batch ID	0909A		
Chromium (6010), mg/kg dw	14		
Dilution Factor	1		
Prep Date	09.09.02		
Analysis Date	09.10 02		
Batch ID	0909A		

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Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-3	DELSSB0104	09-04-02/09:25	LMPG06

PARAMETER	46363-3
Lead (6010), mg/kg dw	23
Dilution Factor	1
Prep Date	09.09.02
Analysis Date	09.10.02
Batch ID	0909A
Selenium (6010), mg/kg dw	0.36U
Dilution Factor	1
Prep Date	09.09.02
Analysis Date	09.10.02
Batch ID	0909A
Silver (6010), mg/kg dw	0.16U
Dilution Factor	1
Prep Date	09.09.02
Analysis Date	09.10.02
Batch ID	0909A
Mercury (7471)	
Mercury, mg/kg dw	0.025U
Dilution Factor	1
Prep Date	09.11.02
Analysis Date	09.13.02
Batch ID	0911S
Percent Solids	79

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Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-4	DELGSB0301	09-04-09/12:00	LMPG06
46363-4-DL	DELGSB0301	09-04-09/12:00	LMPG06
46363-5	DELGSB0401	09-04-09/11:30	LMPG06

PARAMETER	46363-4	46363-4-DL	46363-5
Volatiles by GC/MS (8260)			
Chloromethane, ug/l	50U	200U	1.0U
Bromomethane (Methyl bromide), ug/l	50U	200U	1.0U
nyl chloride, ug/l	31J	200U	1.0U
nloroethane, ug/l	50U	200U	1.0U
Methylene chloride (Dichloromethane), ug/l	250U	1000U	0.28J
Acetone, ug/l	1200U	5000U	25U
Carbon disulfide, ug/l	50U	200U	1.0U
1,1-Dichloroethene, ug/l	93	130DJ	1.5
1,1-Dichloroethane, ug/l	38J	200U	1.0U
cis-1,2-Dichloroethene, ug/l	9300	10000D	34
trans-1,2-Dichloroethene, ug/l	38J	41DJ	1.0U
Chloroform, ug/l	11J	200U	0.25J
1,2-Dichloroethane, ug/l	50U	200U	1.0U
2-Butanone (MEK), ug/l	500U	2000U	10U
1,1,1-Trichloroethane, ug/l	50U	200U	1.0U
Carbon tetrachloride, ug/l	50U	200U	1.0U
Bromodichloromethane, ug/l	50U	200U	1.0U
1,1,2,2-Tetrachloroethane, ug/l	50U	200U	1.0U
1,2-Dichloropropane, ug/l	50U	200U	1.0U
trans-1,3-Dichloropropene, ug/l	50U	200U	1.0U

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Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-4	DELGSB0301	09-04-09/12:00	LMPG06
46363-4-DL	DELGSB0301	09-04-09/12:00	LMPG06
46363-5	DELGSB0401	09-04-09/11:30	LMPG06

PARAMETER	46363-4	46363-4-DL	46363-5
Trichloroethene, ug/l	26000E	30000D	180B
Dibromochloromethane, ug/l	50U	200U	1.0U
1,1,2-Trichloroethane, ug/l	10J	200U	0.16J
Benzene, ug/l	42J	200U	0.22J
cis-1,3-Dichloropropene, ug/l	50U	200U	1.0U
Bromoform, ug/l	50U	200U	1.0U
2-Hexanone, ug/l	500U	2000U	10U
4-Methyl-2-pentanone (MIBK), ug/l	500U	2000U	10U
Tetrachloroethene, ug/l	270	290D	1.0
Toluene, ug/l	50U	200U	0.49J
Chlorobenzene, ug/l	50U	200U	1.0U
Ethylbenzene, ug/l	50U	200U	0.21J
Styrene, ug/l	50U	200U	1.0U
Xylenes, Total, ug/l	100U	400U	2.0U
Surrogate - Toluene-d8	96 %	96 %	96 %
Surrogate - 4-Bromofluorobenzene	84 %	80 %	86 %
Surrogate - Dibromofluoromethane	96 %	96 %	96 %
Dilution Factor	50	200	1
Prep Date	09.10.02	09.10.02	09.12.02
Analysis Date	09.10.02	09.10.02	09.12.02
Batch ID	1B0910	1B0910	1B0912

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Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-4	DELGSB0301	09-04-09/12:00	LMPG06
46363-4-DL	DELGSB0301	09-04-09/12:00	LMPG06
46363-5	DELGSB0401	09-04-09/11:30	LMPG06

PARAMETER	46363-4	46363-4-DL	46363-5
Total Petroleum Hydrocarbons (TNRCC-1005)		---	
TPH-C6-C12, mg/l	7.3	---	5.0U
TPH->C12-C28, mg/l	5.0U	---	5.0U
H->C28-C35, mg/l	5.0U	---	5.0U
H- Total C6-C35, mg/l	8.0	---	5.0U
Surrogate 1-Chlorooctane, %	58 %	---	73 %
Surrogate - o-Terphenyl	58 %	---	73 %
Dilution Factor	1	---	1
Prep Date	09.11.02	---	09 11.02
Analysis Date	09.17.02	---	09.17.02
Batch ID	0911U	---	0911U

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Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-6	DELT090502	09-05-02/12.00	LMPG06

PARAMETER	46363-6
Volatiles by GC/MS (8260)	
Chloromethane, ug/l	1.0U
Bromomethane (Methyl bromide), ug/l	1.0U
Vinyl chloride, ug/l	1.0U
Chloroethane, ug/l	1.0U
thylene chloride (Dichloromethane), ug/l	5.0U
etone, ug/l	25U
Carbon disulfide, ug/l	1.0U
1,1-Dichloroethene, ug/l	1.0U
1,1-Dichloroethane, ug/l	1.0U
cis-1,2-Dichloroethene, ug/l	1.0U
trans-1,2-Dichloroethene, ug/l	1.0U
Chloroform, ug/l	1.0U
1,2-Dichloroethane, ug/l	1.0U
2-Butanone (MEK), ug/l	10U
1,1,1-Trichloroethane, ug/l	1.0U
Carbon tetrachloride, ug/l	1.0U
Bromodichloromethane, ug/l	1.0U
1,1,2,2-Tetrachloroethane, ug/l	1.0U
1,2-Dichloropropane, ug/l	1.0U
trans-1,3-Dichloropropene, ug/l	1.0U
Trichloroethene, ug/l	1.0U
Dibromochloromethane, ug/l	1.0U

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Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-6	DELT090502	09-05-02/12:00	LMPG06

PARAMETER	46363-6
1,1,2-Trichloroethane, ug/l	1.0U
Benzene, ug/l	1.0U
cis-1,3-Dichloropropene, ug/l	1.0U
Bromoform, ug/l	1.0U
2-Hexanone, ug/l	10U
-Methyl-2-pentanone (MIBK), ug/l	10U
etrachloroethene, ug/l	1.0U
Toluene, ug/l	1.0U
Chlorobenzene, ug/l	1.0U
Ethylbenzene, ug/l	1.0U
Styrene, ug/l	1.0U
Xylenes, Total, ug/l	2.0U
Surrogate - Toluene-d8	94 %
Surrogate - 4-Bromofluorobenzene	82 %
Surrogate - Dibromofluoromethane	96 %
Dilution Factor	1
Prep Date	09.10.02
Analysis Date	09.10.02
Batch ID	1B0910

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Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-7	Method Detection Limit (MDL)		LMPG06
46363-8	Method Blank		LMPG06
46363-9	Lab Control Standard % Recovery		LMPG06
46363-10	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-7	46363-8	46363-9	46363-10
Volatiles by GC/MS (8260)				
Chloromethane, ug/kg dw	1.3	10U	---	---
omomethane (Methyl bromide), ug/kg dw	3.6	10U	---	---
nyl chloride, ug/kg dw	1.5	10U	---	---
Chloroethane, ug/kg dw	2.2	10U	---	---
Methylene chloride (Dichloromethane), ug/kg dw	1.4	5.0U	---	---
Acetone, ug/kg dw	3.6	50U	---	---
Carbon disulfide, ug/kg dw	2.2	5.0U	---	---
1,1-Dichloroethene, ug/kg dw	2.2	5.0U	68 %	40-164 %
1,1-Dichloroethane, ug/kg dw	1.6	5.0U	---	---
cis-1,2-Dichloroethene, ug/kg dw	1.7	5.0U	---	---
trans-1,2-Dichloroethene, ug/kg dw	1.9	5.0U	---	---
Chloroform, ug/kg dw	1.7	5.0U	---	---
1,2-Dichloroethane, ug/kg dw	1.2	5.0U	---	---
2-Butanone (MEK), ug/kg dw	3.3	25U	---	---
1,1,1-Trichloroethane, ug/kg dw	2.1	5.0U	---	---
Carbon tetrachloride, ug/kg dw	1.9	5.0U	---	---
Bromodichloromethane, ug/kg dw	0.88	5.0U	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	1.0	5.0U	---	---
1,2-Dichloropropane, ug/kg dw	1.4	5.0U	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-7	Method Detection Limit (MDL)		LMPG06
46363-8	Method Blank		LMPG06
46363-9	Lab Control Standard % Recovery		LMPG06
46363-10	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-7	46363-8	46363-9	46363-10
trans-1,3-Dichloropropene, ug/kg dw	2 1	5.0U	---	---
Trichloroethene, ug/kg dw	2.1	5.0U	76 %	51-146 %
ibromochloromethane, ug/kg dw	0 84	5.0U	---	---
,1,2-Trichloroethane, ug/kg dw	0 96	5.0U	---	---
Benzene, ug/kg dw	1.7	5.0U	82 %	49-142 %
cis-1,3-Dichloropropene, ug/kg dw	0 99	5.0U	---	---
Bromoform, ug/kg dw	0.82	5.0U	---	---
2-Hexanone, ug/kg dw	4.8	25U	---	---
4-Methyl-2-pentanone (MIBK), ug/kg dw	4.9	25U	---	---
Tetrachloroethene, ug/kg dw	3.0	5.0U	---	---
Toluene, ug/kg dw	1.8	5.0U	82 %	38-158 %
Chlorobenzene, ug/kg dw	1.3	5.0U	84 %	66-135 %
Ethylbenzene, ug/kg dw	2.0	5 0U	---	---
Styrene, ug/kg dw	1.8	5.0U	---	---
Xylenes, Total, ug/kg dw	3.0	10U	---	---
Dilution Factor	---	1	1	---
Prep Date	---	09.10.02	09.10.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	1M0910	1M0910	---

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Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-7	Method Detection Limit (MDL)		LMPG06
46363-8	Method Blank		LMPG06
46363-9	Lab Control Standard % Recovery		LMPG06
46363-10	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-7	46363-8	46363-9	46363-10
Total Petroleum Hydrocarbons (TNRCC-1005)				
TPH-C6-C12, mg/kg dw	25	50U	96 %	75-125 %
TPH->C12-C28, mg/kg dw	25	50U	92 %	75-125 %
TPH->C28-C35, mg/kg dw	25	50U	92 %	75-125 %
TPH- Total C6-C35, mg/kg dw	25	50U	94 %	75-125 %
Surrogate 1-Chlorooctane, %	---	80 %	76 %	75-125 %
Surrogate - o-Terphenyl	---	80 %	76 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.16.02	09.16.02	---
Analysis Date	---	09.17.02	09.17.02	---
Batch ID	---	0916W	0916W	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-11	Method Detection Limit (MDL)		LMPG06
46363-12	Method Blank		LMPG06
46363-13	Lab Control Standard % Recovery		LMPG06
46363-14	LCS Accuracy Control Limit (%R)		LMPG06
46363-19	Method Blank		LMPG06

PARAMETER	46363-11	46363-12	46363-13	46363-14	46363-19
Total Petroleum Hydrocarbons (TNRCC-1005)					
PH-C6-C12, mg/l	2.5	5.0U	76 %	75-125 %	5.0U
TPH->C12-C28, mg/l	2.5	5 0U	76 %	75-125 %	5.0U
TPH->C28-C35, mg/l	2.5	5.0U	76 %	75-125 %	5.0U
TPH- Total C6-C35, mg/l	2 5	5.0U	75 %	75-125 %	5.0U
Surrogate 1-Chlorooctane, mg/l	---	67 %	54 %	75-125 %	64 %X
Surrogate - o-Terphenyl	---	64 %	54 %	75-125 %	54 %X
Dilution Factor	---	1	1	---	1
Prep Date	---	09.11.02	09.11.02	---	09.26.02
Analysis Date	---	09.17.02	09.17.02	---	09.26.02
Batch ID	---	0911U	0911U	---	0926V

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S2-46363
Received: 06 SEP 02
Reported: 30 SEP 02

Mr. Ed Mears
EnSafe, Inc.
4545 Fuller Dr., Suite 326
Irving, TX 75038

Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-11	Method Detection Limit (MDL)		LMPG06
46363-12	Method Blank		LMPG06
46363-13	Lab Control Standard % Recovery		LMPG06
46363-14	LCS Accuracy Control Limit (%R)		LMPG06
46363-19	Method Blank		LMPG06

PARAMETER	46363-11	46363-12	46363-13	46363-14	46363-19
Volatiles by GC/MS (8260)					
Chloromethane, ug/l	0.30	1.0U	---	---	1.0U
Bromomethane (Methyl bromide), ug/l	0.44	1 0U	---	---	1.0U
Vinyl chloride, ug/l	0.28	1 0U	---	---	1 0U
Chloroethane, ug/l	0.22	1.0U	---	---	1.0U
Methylene chloride (Dichloromethane), ug/l	0.25	5.0U	---	---	5.0U
Acetone, ug/l	12	25U	---	---	25U
Carbon disulfide, ug/l	0.35	1 0U	---	---	1.0U
1,1-Dichloroethene, ug/l	0.19	1.0U	86 %	46-147 %	1.0U
1,1-Dichloroethane, ug/l	0.38	1.0U	---	---	1.0U
cis-1,2-Dichloroethene, ug/l	0.51	1.0U	---	---	1.0U
trans-1,2-Dichloroethene, ug/l	0.19	1.0U	---	---	1.0U
Chloroform, ug/l	0.14	1.0U	---	---	1.0U
1,2-Dichloroethane, ug/l	0.46	1 0U	---	---	1.0U
2-Butanone (MEK), ug/l	5.5	10U	---	---	10U
1,1,1-Trichloroethane, ug/l	0 14	1.0U	---	---	1.0U
Carbon tetrachloride, ug/l	0.090	1.0U	---	---	1.0U

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REPORT OF RESULTS

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46363-13	Lab Control Standard % Recovery		LMPG06
46363-14	LCS Accuracy Control Limit (%R)		LMPG06
46363-19	Method Blank		LMPG06

PARAMETER	46363-11	46363-12	46363-13	46363-14	46363-19
Bromodichloromethane, ug/l	0.14	1.0U	---	---	1.0U
1,2,2-Tetrachloroethane, ug/l	0.13	1.0U	---	---	1.0U
2-Dichloropropane, ug/l	0.090	1.0U	---	---	1.0U
trans-1,3-Dichloropropene, ug/l	0.49	1.0U	---	---	1.0U
Trichloroethene, ug/l	0.17	1.0U	84 %	56-143 %	0.20J
Dibromochloromethane, ug/l	0.17	1.0U	---	---	1.0U
1,1,2-Trichloroethane, ug/l	0.15	1.0U	---	---	1.0U
Benzene, ug/l	0.10	1.0U	92 %	62-135 %	1.0U
cis-1,3-Dichloropropene, ug/l	0.17	1.0U	---	---	1.0U
Bromoform, ug/l	0.24	1.0U	---	---	1.0U
2-Hexanone, ug/l	1.5	10U	---	---	10U
4-Methyl-2-pentanone (MIBK), ug/l	0.59	10U	---	---	10U
Tetrachloroethene, ug/l	0.38	1.0U	---	---	1.0U
Toluene, ug/l	0.28	1.0U	90 %	68-131 %	1.0U
Chlorobenzene, ug/l	0 090	1.0U	92 %	72-127 %	1.0U
Ethylbenzene, ug/l	0.11	1.0U	---	---	1.0U
Styrene, ug/l	0.16	1.0U	---	---	1.0U
Xylenes, Total, ug/l	0.31	2.0U	---	---	2.0U
Surrogate - Toluene-d8	---	96 %	96 %	77-122 %	96 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-11	Method Detection Limit (MDL)		LMPG06
46363-12	Method Blank		LMPG06
46363-13	Lab Control Standard % Recovery		LMPG06
46363-14	LCS Accuracy Control Limit (%R)		LMPG06
46363-19	Method Blank		LMPG06

PARAMETER	46363-11	46363-12	46363-13	46363-14	46363-19
Surrogate - 4-Bromofluorobenzene	---	84 %	84 %	74-126 %	88 %
Surrogate - Dibromofluoromethane	---	92 %	96 %	70-130 %	96 %
Dilution Factor	---	1	1	---	1
Prep Date	---	09.10.02	09.10.02	---	09.12.02
Analysis Date	---	09.10 02	09.10.02	---	09.12.02
Batch ID	---	1B0910	1B0910	---	1B0912

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Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED	SDG#
46363-20	Lab Control Standard % Recovery		LMPG06

PARAMETER	46363-20
Total Petroleum Hydrocarbons (TNRCC-1005)	
TPH-C6-C12	85 %
TPH->C12-C28	88 %
TPH->C28-C35	88 %
TPH- Total C6-C35	84 %
Surrogate 1-Chlorooctane	67 %X
Surrogate - o-Terphenyl	54 %X
Dilution Factor	1
Prep Date	09.26.02
Analysis Date	09.26.02
Batch ID	0926V
Volatiles by GC/MS (8260)	
1,1-Dichloroethene	94 %
Trichloroethene	100 %
Benzene	98 %
Toluene	96 %
Chlorobenzene	96 %
Surrogate - Toluene-d8	98 %
Surrogate - 4-Bromofluorobenzene	94 %
Surrogate - Dibromofluoromethane	96 %
Dilution Factor	1
Prep Date	09.12.02
Analysis Date	09.12.02
Batch ID	1B0912

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Irving, TX 75038

Client PO. No.: 7540/REL37
Cl Project No: 7540-005-02-001-00

Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-15	Instrument Detection Limit (IDL)		LMPG06
46363-16	Method Blank		LMPG06
46363-17	Lab Control Standard % Recovery		LMPG06
46363-18	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-15	46363-16	46363-17	46363-18
Arsenic (6010), mg/kg dw	0.50	0.50U	92 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09 09.02	09.09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---
Barium (6010), mg/kg dw	0.030	0.079B	101 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09.09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---
Cadmium (6010), mg/kg dw	0.050	0.050U	96 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09 09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---
Chromium (6010), mg/kg dw	0.090	0.098B	100 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09.09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---

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Project. DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-15	Instrument Detection Limit (IDL)		LMPG06
46363-16	Method Blank		LMPG06
46363-17	Lab Control Standard % Recovery		LMPG06
46363-18	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-15	46363-16	46363-17	46363-18
Lead (6010), mg/kg dw	0.21	0.50B	98 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09.09.02	---
Analysis Date	---	09.11.02	09.10.02	---
Batch ID	---	0909A	0909A	---
Selenium (6010), mg/kg dw	0.31	0.31U	93 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09.09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---
Silver (6010), mg/kg dw	0.14	0.14U	96 %	75-125 %
Dilution Factor	---	1	1	---
Prep Date	---	09.09.02	09.09.02	---
Analysis Date	---	09.10.02	09.10.02	---
Batch ID	---	0909A	0909A	---

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Project: DELFASCO/LMPG06
Sampled By: Client
Code: 15352103

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED	SDG#
46363-15	Instrument Detection Limit (IDL)		LMPG06
46363-16	Method Blank		LMPG06
46363-17	Lab Control Standard % Recovery		LMPG06
46363-18	LCS Accuracy Control Limit (%R)		LMPG06

PARAMETER	46363-15	46363-16	46363-17	46363-18
Mercury (7471)				
Mercury, mg/kg dw	0.0050	0.020U	112 %	80-120 %
lution Factor	---	1	1	---
ep Date	---	09.11.02	09.11.02	---
Analysis Date	---	09.13.02	09.13.02	---
Batch ID	---	0911S	0911S	---

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III.

U = Indicates compound was analyzed for but not detected.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.
E = Estimated value. Analyte abundance exceeded the instrument calibration range.

D = Result is from a secondary dilution.
B (Organic) = This flag is used when the analyte is found in the associated method blank as well as in the sample.

Linda A Wolfe
Linda A. Wolfe, Project Manager

CHAIN OF CUSTODY

LMP606

ENSAFE

800-588-7962
MEMPHIS, TENNESSEE
CHARLESTON, SC; CINCINNATI, OH; DALLAS, TX; JACKSON, TN; KNOXVILLE, TN; LANCASTER, PA; NASHVILLE, TN; NORFOLK, VA; PADUCAH, KY; PENSACOLA, FL; RALEIGH, NC; COLOGNE, GERMANY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1
PROJECT/JOB NO. 7540 5-02-001-C
COC NO:
PO NO. 7540
REL NO. 37
LAB NAME: STL SAVANNAH

CLIENT DELFASCO
LOCATION GRAND PRAIRIE, TX
SAMPLERS: (SIGNATURE) /ED MEARS

PROJECT MANAGER ED MEARS
TELE/FAX NO. 972-791-3222/0105

FIELD SAMPLE NUMBER	DATE	TIME	SAMPLE TYPE	TYPE/SIZE OF CONTAINER	PRESERVATION TEMP.	PRESERVATION CHEMICAL	NO. OF CONTAINERS	ANALYSIS REQUIRED: VOCs 8260B	METALS 6010B	TPH TX1005	REMARKS
DELSSB0104	9/4/02	0925	S	250 mL Plastic	4°	—	1		X		METALS ONLY
DELSSB0208	9/4/02	0950	S	4oz Amber	4°	—	2	X		X	
DELSSB0304	9/4/02	1140	S	4oz Amber	4°	—	2	X		X	
DELSSB0404											NOT SAMPLED
DELGSB0301	9/5/02	1200	W	40mL VOAs	4°	HCl	6	X		X	WATER
DELGSB0401	9/5/02	1130	W	40mL VOAs	4°	HCl	6	X		X	WATER
DELTO90502	9/5/02	1200	W	40mL VOAs	4°	HCl	3	X			TRIP BLANK

RELINQUISHER	DATE	TIME	RECEIVER	DATE	TIME	RELINQUISHER	DATE	TIME	RECEIVER	DATE	TIME
PRINTED: EDWARD T. MEARS			PRINTED	9.6.02	915	PRINTED			PRINTED		
COMPANY: ENSAFE			COMPANY: STL-Savannah			COMPANY			COMPANY		

METHOD OF SHIPMENT: FEDEX
SHIPMENT NO. 1 OF 1
SEND RESULTS TO: E. MEARS, 4545 FULLER DR #826, IRVING, TX, 75038

COMMENTS: STANDARD, 21-DAY TURN AROUND TIME
52-46363

ANALYTICAL DATA RECEIVED BY (INITIALS/DAT